AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1	1. (Currently Amended) An automated method of preventing an
2	endnode in a communication fabric from receiving an unauthorized
3	communication, comprising:
4	establishing a first category of management communications to include:
5	a request from a manager node to an endnode; and
6	a reply from the manager node to a request from an endnode;
7	establishing a second category of management communications to include
8	a reply from an endnode to a request from the manager node; and
9	a request from an endnode to the manager node; and
10	at a switching device coupled to a first endnode:
11	receiving from the communication fabric a management
12	communication packet addressed to the first endnode;
13	determining whether the first endnode is a trusted endnode;
14	determining whether the management communication is a first
15	category management communication based on the management class or
16	method in which the management communication is generated; and
17	if the first endnode is not a trusted endnode, discarding the
18	management communication if the management communication is not a
19	first category management communication.

2. (Original) The method of claim 1, further comprising:

3	untrusted.
1	3. (Original) The method of claim 2, wherein said classifying
2	comprises:
3	associating with each port of the switching device an indicator configured
4	to indicate whether a node coupled to the port is trusted.
1	4. (Original) The method of claim 2, wherein said classifying
2	comprises:
3	classifying the first endnode as a trusted endnode if the first endnode is a
4	manager node.
1	5. (Original) The method of claim 2, wherein said classifying
2	comprises:
3	classifying the first endnode as an untrusted endnode if the first endnode is
4	not configured to act as a manager node.
1	6. (Original) The method of claim 1, wherein said determining
2	comprises:
3	reading an indicator associated with a port of the switch to which the first
4	endnode is coupled;
5	wherein said indicator is configured to indicate whether the first endnode
5	is trusted.
1	7. (Original) The method of claim 1, further comprising, at the
2	switching device:
3	if the first endnode is trusted, forwarding the management communication
	YD Atty, Docket No. SUN04-0259

classifying each endnode in the communication fabric as either trusted or

1	8. (Original) The method of claim 1, further comprising, at the	
2	switching device:	
3	receiving a second management communication from the first endnode;	
4	and	
5	discarding the second management communication if the management	
6	communication is not a second category management communication.	
1	9. (Original) The method of claim 1, wherein the communication	
2	fabric comprises a subnet of an InfiniBand communication fabric.	
1	10. (Original) The method of claim 9, wherein a management	
2	communication comprises a communication transmitted on virtual lane 15 of the	
3	InfiniBand communication fabric.	
1	11. (Currently Amended) A computer readable medium storing	
2	instructions that, when executed by a computer, cause the computer to perform a	
3	method of preventing an endnode in a communication fabric from receiving an	
4	unauthorized communication, comprising:	
5	establishing a first category of management communications to include:	
6	a request from a manager node to an endnode; and	
7	a reply from the manager node to a request from an endnode;	
8	establishing a second category of management communications to include	
9	a reply from an endnode to a request from the manager node; and	
10	a request from an endnode to the manager node; and	
11	at a switching device coupled to a first endnode:	
12	receiving from the communication fabric a management communication	

to the first endnode regardless of the category of the management communication.

13	addressed to the first endnode;	
14	determining whether the first endnode is a trusted endnode;	
15	determining whether the management communication is a first	
16	category management communication based on the management class or	
17	method in which the management communication is generated; and	
18	if the first endnode is not a trusted endnode, discarding the	
19	management communication if the management communication is not a	
20	first category management communication.	
1	12. (Currently Amended) An automated method of preventing an	
2	endnode in a communication fabric from sending an unauthorized	
3	communication, comprising:	
4	establishing a first category of management communications to include:	
5	a request from a manager node to an endnode; and	
6	a reply from the manager node to a request from an endnode;	
7	establishing a second category of management communications to include	
8	a reply from an endnode to a request from the manager node; and	
9	a request from an endnode to the manager node; and	
10	at a switching device coupled to a first endnode:	
11	receiving from a first endnode a management communication addressed to	
12	a second endnode in the communication fabric;	
13	determining whether the first endnode is a trusted endnode;	
14	determining whether the management communication is a second	
15	category management communication based on the management class or	
16	method in which the management communication is generated; and	
17	if the first endnode is not a trusted endnode, discarding the	
18	management communication if the management communication is not a	
19	second category management communication	

1	13.	(Original) The method of claim 12, further comprising:	
2	classifying each endnode in the communication fabric as either trusted or		
3	untrusted.		
1	14.	(Original) The method of claim 12, wherein said classifying	
2	comprises:		
3	associating with each port of the switching device an indicator configured		
4	to indicate whether a node coupled to the port is trusted.		
1	15.	(Original) The method of claim 12, wherein said classifying	
2	comprises:		
3	classifying the first endnode as a trusted endnode if the first endnode is a		
4	manager nod	e.	
1	16.	(Original) The method of claim 12, wherein said classifying	
2	comprises:		
3	classifying the first endnode as an untrusted endnode if the first endnode		
4	not configure	ed to act as a manager node.	
1	17.	(Original) The method of claim 12, wherein said determining	
2	comprises:		
3	readii	ng an indicator associated with a port of the switch to which the first	
4	endnode is coupled;		
5	where	wherein said indicator is configured to indicate whether the first endnode	
6	is trusted.		

(Original) The method of claim 12, further comprising, at the

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2	switching device:	
3	if the first endnode is trusted, forwarding the management communication	
4	toward the second endnode regardless of the category of the management	
5	communication.	
1	19. (Original) The method of claim 12, further comprising, at the	
2	switching device:	
3	receiving a second management communication addressed to the first	
4	endnode; and	
5	discarding the second management communication if the management	
6	communication is not a first category management communication.	
1	20. (Original) The method of claim 12, wherein the communication	
2	fabric comprises a subnet of an InfiniBand communication fabric.	
1	21. (Original) The method of claim 20, wherein a management	
2	communication comprises a communication transmitted on virtual lane 15 of the	
3 InfiniBand communication fabric.		
1	22. (Currently Amended) A computer readable medium storing	
2	instructions that, when executed by a computer, cause the computer to perform a	
3	method of preventing an endnode in a communication fabric from sending an	
4	unauthorized communication, comprising:	
5	establishing a first category of management communications to include:	
6	a request from a manager node to an endnode; and	
7	a reply from the manager node to a request from an endnode;	
8	establishing a second category of management communications to include:	
9	a reply from an endnode to a request from the manager node; and	

10	a request from an endnode to the manager node; and
11	at a switching device coupled to a first endnode:
12	receiving from a first endnode a management communication addressed to
13	a second endnode in the communication fabric;
14	determining whether the first endnode is a trusted endnode;
15	determining whether the management communication is a second
16	category management communication based on the management class or
17	method in which the management communication is generated; and
18	if the first endnode is not a trusted endnode, discarding the
19	management communication if the management communication is not a
20	second category management communication.
1	23. (Currently Amended) An apparatus for preventing a node in a
2	communication fabric from engaging in unauthorized communication, the
3	apparatus comprising:
4	a switching device configured to route management communications
5	through the communication fabric, wherein:
6	a type one management communications comprise requests from a
7	manager node to endnodes and replies from the manager node to requests
8	from endnodes; and
9	a type two management communications comprise replies from
10	endnodes to requests from the manager node and requests from
11	endnodes to the manager node;
12	wherein a management communication is categorized to be a type
13	one or a type two management communication based on the management
14	class or method in which the management communication is generated;
15	for each port of the switching device, an indicator configured to indicate
16	whether an endnode coupled to the port is trusted;

1 /	wherein a first management communication addressed to a first endnode		
18	coupled to a first port of the switching device is discarded if the first endnode is		
19	not trusted and the first management communication is not a type one		
20	management communication; and		
21	wherein a second management communication received from the first		
22	endnode is discarded if the first endnode is not trusted and the second		
23	management communication is not a type two management communication.		
1	24. (Original) The apparatus of claim 23, further comprising:		
2	a secure channel configured to allow a management node to configure said		
3	indicators.		
1	25. (Original) The apparatus of claim 23, wherein:		
2	for each port coupled to another switching element, said indicator is set to		
3	indicate the other switching element is trusted.		
1	26. (Original) The apparatus of claim 23, wherein:		
2	for each port coupled to a management node, said indicator is set to		
3	indicate the management node is trusted.		
1	27. (Original) The apparatus of claim 23, wherein:		
2	for each port coupled to an endnode that is not configured to act as a		
3	management node, said indicator is set to indicate the endnode is not trusted.		
1	28. (Original) The apparatus of claim 23, wherein:		
2	the communication fabric comprises an InfiniBand communication fabric;		
3	and		
4	a management communication comprises a communication transmitted		

1 29. (Currently Amended) A computer readable medium residing in a
2 communication switch and containing a data structure configured for indicating
3 trust, the data structure comprising:
4 for each port of the communication switch, an indicator configured to
5 indicate whether a communication node coupled to the port is trusted;
6 wherein a port indicator is set to a first state if the coupled communication

over virtual lane 15 of the InfiniBand communication fabric.

- wherein a port indicator is set to a first state if the coupled communication node is trusted and is set to a second state if the coupled communication node is not trusted; and
- wherein management communications addressed to the coupled communication node are filtered <u>based on the management class or method in</u> which the management communications are generated if the port indicator is set to said second state.

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